	Application No.	Applicant(s)
	09/172,553	GREEN ET AL.
Notice of Allowability	Examiner	Art Unit
	José R. Díaz	2815
The MAILING DATE of this communication appearable communication appe	OR REMAINS) CLOSED in this apport of the communication of the communication of the communication is subject to the communication in the communication is subject to the c	plication. If not included will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>2/4/05</u> .		
2. ☑ The allowed claim(s) is/are <u>31-35 and 37-45</u> .		•
3. $igotimes$ The drawings filed on <u>14 October 2000</u> are accepted by the	Examiner.	
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the captain attached Examiner's comment regarding REQUIREMENT for the comment of the captain of the	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  tted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment of the drawing the header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL I	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF ation is deficient.  948) attached  Office action of the back) of d).  must be submitted. Note the
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)  3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☑ Examiner's Amendo 8. ☑ Examiner's Statemo	te

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brick Power (Reg. No. 38,581) on February 17, 2005.

Please amend claims 31, 33, 35, 37-38 and 42-45 as follows:

Claim 31, lines 3-4:

a plurality of [[contiguous]] mesas comprising a plurality of contiguous top surfaces , the mesas forming a maze-like structure.

Claim 33, lines 3-4:

a plurality of [[contiguous]] webs comprising a plurality of contiguous top surfaces , the webs forming a maze-like structure.

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Claim 35, lines 3-5:

a storage poly structure comprising a plurality of [[contiguous]] mesas with recesses therebetween;

a contiguous hemispherical-grain polysilicon layer <u>forming a maze-like</u> <u>structure</u> on the storage poly-structure and in contact therewith; and

Claim 37, lines 4-5:

a plurality of low elevations regions of a hemispherical-grain polysilicon layer <u>forming a maze-like structure</u> on the storage poly-structure;

Claim 38, lines 8-10:

plurality of [[contiguous]] mesas , top surfaces of the plurality of mesas forming a maze-like structure; and

[[and]] a dielectric layer [[substantially]] coating an upper surface of the storage poly structure and [[substantially]] lining each of the plurality of recesses.

Claim 42, lines 4-5:

a [[substantially]] confluent hemispherical-grain polysilicon layer on the storage poly structure; and

a mask <u>forming a maze-like structure</u> positioned over the [[substantially]] confluent hemispherical-grain polysilicon layer,

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Claim 43, lines 4-7:

remaining portions of a hemispherical-grain polysilicon layer having a web-like appearance and substantially forming a maze-like structure overlying upper portions of the storage poly structure; and

a mask positioned over the hemispherical-grain polysilicon layer , laterally between the recesses, and [[substantially]] spaced apart from the storage poly structure by the remaining portions

Claim 44, line 4:

a hemispherical-grain polysilicon layer having a web-like appearance forming a maze-like structure on at least portions of the

Claim 45, line 4:

low elevation regions of a hemispherical-grain polysilicon layer having a web-like appearance forming a maze-like structure on

## Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the prior art fails to teach, disclose, or suggest, either alone or in combination, a capacitor storage poly structure having a maze-like structure formed by top surfaces of the storage poly structure, remaining portions of the hemispherical-grain polysilicon layer positioned on the top surfaces, and a planarized mask positioned on the hemispherical-grain polysilicon layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R. Díaz whose telephone number is (571) 272-1727. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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JRD 2/18/05

TOM THOMAS SUPERVISORY PATENT EXAMINER